

Appl. No. 10/727,800

Amdt. dated September 6, 2005

Reply to Office action of June 6, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (amended). A shell fuse, comprising:

a target acquisition sensor;

a firing train including a firing device carrier movably disposed from a safe position into an armed position, and a linearly movable firing pin;

a force element disposed to be initiated by said target acquisition sensor and ~~coupled~~ a linearly movable pin coupling said force element to said firing device carrier for moving said firing device carrier into the armed position, said linearly movable pin being displaceably supported parallel to said firing pin.

Claim 2 (original). The shell fuse according to claim 1, wherein said target acquisition sensor is an impact sensor.

Claim 3 (currently amended). The shell fuse according to claim 1, wherein said force element is coupled to a firing pin of said firing train via said linearly movable pin such that

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said firing pin is blocked in the safe position and released in the armed position.

Claim 4 (canceled).

Claim 5 (currently amended). The shell fuse according to ~~claim~~ 4 claim 1, which comprises a safety pin coupling said force element to said firing pin, said safety pin bearing against said linearly movable pin.

Claim 6 (original). The shell fuse according to claim 1, which comprises an electronic system connected to said sensor and said force element, wherein, upon target acquisition, said sensor passes a signal to said electronic system, and said electronic system initiates said force element.

Claim 7 (currently amended). The shell fuse according to claim 1, wherein said force element is a pyrotechnic force element with a piston bearing against a said linearly movable pin coupling said force element said firing device carrier.

Claim 8 (currently amended). The shell fuse according to ~~claim~~ 4 claim 1, wherein ~~said linearly movable pin is displaceably supported parallel to said firing pin and said safety pin is~~

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transversely displaceable with respect to said linearly movable pin and said firing pin.

Claim 9 (original). The shell fuse according to claim 5, wherein said linearly movable pin is formed with a recess for receiving said safety pin in the armed position.

Claim 10 (original). The shell fuse according to ~~claim 4~~ claim 1, wherein said firing pin is formed with a bevel and said bevel is braced against said safety pin in the safe position.

Claim 11 (original). The shell fuse according to claim 1, wherein said firing device carrier is a rotor formed with a radial nose, and said linearly movable pin is disposed to act upon said rotor via said nose.

Claim 12 (new). In an explosive projectile, a combined bore-safety and overflight safety fuse, comprising:

a target acquisition sensor;

a firing train including a firing device carrier movably disposed from a safe position into an armed position;

a force element coupled to said firing device carrier; and

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an electronic system connected to said target acquisition sensor, said electronic system, upon target acquisition by said target acquisition sensor, causing said force element to move said firing device carrier into the armed position.

Claim 13 (new). The shell fuse according to claim 12, which comprises a linearly movable pin coupling said force element to said firing device carrier.

Claim 14 (new). The shell fuse according to claim 13, which comprises a linearly movable firing pin movable parallel too said linearly movable pin for moving said firing device carrier into the armed position.